

12/04/00

jc952 U.S. PTO

A

SPECIFICATION

THE WIRELESS VOICE ACTIVATED AND RECOGNITION CAR SYSTEM

WITH GRAPHICAL USER INTERFACE REMOTE SCREEN, A RADIO/CD-TELEPHONE SYSTEM
INCLUDING A WIRELESS MICROPHONE, 3-LENS WEB CAM, INTERCOM,
LCD SCREEN SPLIT PERSONALITY, AND 6 CD-CHANGER

TIM HEINRICH
4295 HITCH BLVD.
MOORPARK, CA 93021

Communication

Abstract

CROSS REFERENCES

UNITED STATES PATENTS

Patent #6130625 on October 10, 2000 Harvey; Michael Lee; Application #788298 Class
340/825.72 filed on January 24, 1997

Patent #6138100 on October 24, 2000 Dutton, Dawn L.; Application #059912 Class 704/275 filed
on April 14, 1998

Patent #6151572 on November 21, 2000 Cheng; Yan-Ming; Application 67779 Class 704/235 filed
on April 27, 1998

Patent #D404736 on January 26, 1999 Alvarez; Jason Joel; Application #082569 Class d14/229
filed on January 26, 1998

Patent #6067278 on May 23, 2000 Owens; Kenneth R.; Application #055628 Class 369/7 filed on
April 6, 1998

Patent #5884265 on March 16, 1998 Squitteri; Paul Anthony; Application #826459 Class #704/275
filed March 27, 1997

Patent #6009383 on December 28, 1999 Mony; George; Application #961141 Class 704/200 filed
on October 30, 1997

FOREIGN PATENTS

Patent #5896554 on April 20, 1999 Itoh; Yoshikazu; Application # 831858 Class 455/2 filed on
April 2, 1997

Patent #6124804 on September 26, 2000 Kitao, Mitsuru; Application # 554516 Class #340/825.69 filed on November 7, 1995

Patent#6097928 on August 1, 2000 Jean; Bong Shin; Application#948460 Class#455/8 filed on October 10,1997

Patent#6134220 on October 17, 2000 Le Strat; Evelyn; Application#727429 Class#370/252 filed on October 11,1996

Patent#5950117 on September 7,1999 Zorer; Jean-Louis; Application#631384 Class 455/186.1 filed on April 12, 1996

Patent#D400531 on November 3, 1998 Kokkinis; Serge; Application#066951 Class#D14/168 filed on February 27, 1997

BACKGROUND OF THE INVENTION

FIELD OF INVENTION

A wireless mobile transmitter FIG.4 to send a predetermined frequency to the primary station FIG.1 which has a processing section, modulating section, transmitting section, receiving section, demodulating section, transmission switching system, and receiving end switching section.

When signals received from multi-path transmitters from a predetermined channel connecting to the same primary station which provides a coding mode, each mode corresponding to a predetermined source code and a predetermined channel code for transmission of a wanted signal for each transmission direction.

Between the primary station and receiving station two separate of transmission quality are carried out for each transmission directions one coding mode is selected in accordance with the corresponding transmission.

A number of control channels and unit groups correspond with the primary station which executes by one radio unit among a number of other unit groups through a predetermined control channel.

Executing the communication by the primary station through one or more control channels which can be operated at once or if one has a fault.

Each control channel has a separate line connecting with the different control units connecting to the primary station in which the receiving station with a predetermined signal which will activate that unit.

Having more than one control channel connected to the primary station can control at a predetermined frequency unlimited of units inside a car including radio, CD, telephone, windows, locks, lights,

temperature, doors, seat belts, power steering, cruise control, engine, web cam, DVD, CD-ROM, CD-Changer from a predetermined distance.

The invention relates to a remote controller, a web camera, CD-changer, a car radio and voice activation working together as one unit.

Today remote controls are used for almost any electronic gadget inside a house including a television, a stereo, and a VCR.

The invention of the Universal Remote Control by Harvey, Michael Lee who created one remote control to be able to control all of the electronic units inside a house.

Now (VAC) Voice Activated Connection system has leaped forward in a technology age where we can now dial your mom's phone number by saying "Call Mom" where the words are stored in a dialog box, which are then referred when a person requests a command.

A graphical user interface is a type of display format that enables a user to choose commands, start programs, and see lists of files and other option by pointing to pictorial representations and lists of menu items on a computer display screen.

Cell phones have come along way in today's technology era. We can now dial phone numbers, go on the web and even connect a head phone to speak into the phone with.

In recent years the music industry have been building smaller and better-looking CD/Tape players, but now we need to think of being able to play DVD and CD-ROM in the same CD player.

DESCRIPTION OF PRIOR ART

With technology expanding we need to equip our cars with the right tools so they can be compatible in today's society.

The radio system as been around for a long time now, but we still can only play CD's or tapes inside the system.

The cell phones are getting so small you can't even see them any more, but with all the technology we have we still have to hold our cell phones to talk with.

With the headphones being made for cell phones; studies are trying to prove that radiation is being sent right through the headsets to our brains.

Most phones don't have voice activation and the capability of voice recognition.

CD-Changers is great, because now you have a greater wide of choices to choose from.

The problem though is what if you have a DVD player or a CD-ROM player shouldn't you has a CD-Changer that could hold all three.

The Internet is great on cell phones and the new Palm systems, but the screens are so small and how do you type messages.

What if a person is late for a meeting and doesn't need to talk to his business partners, but needs to show them graphs and charts.

Is there any way from sitting inside a car; a person could give a presentation.

On a cold windy night in the pitch dark and having bad vision it must get pretty scary driving at night.

SUMMARY OF THE INVENTION

It is, therefore, an object of the invention to provide the Wireless Voice Activation and Recognition Car System including a wireless microphone, which is transmitted, to the Radio/CD-Telephone System, which will then activate the predetermined unit or electronic device inside the car.

With several channel controllers a person can activate a unit by speaking into the voice activation transmitter FIG.4; using a graphical user interface FIG.2, which is mounted for monitoring the cars units and electronic devices on a touch screen in arms length, or manually grabbing the switch.

Now a person can connect the cell phone inside of the new Radio/CD-Telephone System by using an adapter cord and with voice activation and recognition to be able to turn the phone on, search for a number, dial it, and talk on the phone without even looking at it.

A lot of trouble is being able to listen on a cell phone with loud noises outside your car.

Well, since the phone is connected to the Radio/CD-Telephone System you can now listen on your phone through the car's radio speakers and talk through the wireless microphone.

It's a very dark cold night outside and you're all by yourself in a deserted parking lot; turn on your engine, lights, music and the heater from a predetermined distance away from the car so its nice and warm when you get inside.

While driving you'll be able to turn on any unit or electronic device connected to a control channel like your A/C, heater, lights, lock doors, by your voice.

On a long road trip don't worry with the 6 CD-Changer that can hold all three disc's; watch a DVD, play a CD-ROM game, or listen to your favorite CD audio.

Since the Radio/CD-Telephone System is connected to the speakers pop a DVD inside the system and listen to the movie through the radio speakers or click on headphones and listen to them on the wireless headphones.

While driving in the dark use the 3-lens web cam to see with the inferred and magnified lens on the screen at a predetermined distance of the road.

Use the 3-lens web cam to record video messages or have conversations with your friend, family, business partners so that they can view you from your car while talking.

With a hard drive installed with the Radio/CD-Telephone System copy or down load information onto or from the screen.

Be able to view a DVD movie, a video message, and the road at the same time on the new LCD split screen personality that can display different frames onto the same screen.

Change from listening to the CD audio to watching a DVD on the screens by voice recognition.

Use the graphical user interface to change unit or electronic options.

On screen will have option icons like mail, memo pad, car menu, internet, web cam, dialog box speaker options expenses, touch with finger or pen to move from screen to screen, or turn off the control channels like the intercom, graphical interface, and wireless microphone.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

Figure 1. Shows the diagram of the Radio/CD-Telephone System

Figure 2. A User Graphical Interface diagram

Figure 3. A diagram of the 3-lens Web Camera

Figure 4. Shows the diagram of the wireless microphone transmitter/Intercom

Figure 5. A diagram of the LCD screen with the split personality

Figure 6. Shows the diagram of the new CD-changer

DETAILED DESCRIPTION OF THE INVENTION

The Wireless Voice Activated Car System will retransform the automobile industry into the twenty first centuries. Imagine a car that can be controlled by a single voice command. Today cars are equipped with CD/Tape players, a CD-Changer, power windows, locks, etc. and can turn a car engine with a button.

The problem with this is that we are at the point where are advances in today's technology era are just to sophisticated for an average automobile. We need to build a car with the capability of putting today's electronic devices inside the car.

Cell phones, which are very popular today, still have to hold the phone, and with headsets that studies have been trying to prove that the headphones direct the radiation directly into the brain.

So now connecting the phone with an adapter to the inside of the Radio/CD-Telephone System we can program the phone for voice activation and recognition.

Be able to dial phone numbers, look up phone numbers, switch from line 1 to line 2, hold, redial, answer the phone all with voice recognition.

The computer connected to the Radio/CD-Telephone System will be able to receive the predetermined channel control signal, process the transmitted signal, decode and search for predetermined unit or electronic device, and transmit signal for activating device.

Listening in a crowded commute can be very hard, but now with the Radio/CD-Telephone System be able to listen to conversations over the radio speakers and talk through the wireless microphone that can be put anywhere inside a car.

Having the ability to turn on any unit or electronic device with a voice command while driving like changing radio to CD, calling on the phone, or changing the temperature with the voice activation system.

By using voice recognition only the programmer's voice can operate units and electronic devices using the voice activation, but passengers can use the intercom which operates as a walkie-talkie based solely on the primary station and the single channel control.

Passengers also have the option of using the graphical user interface by touching with their fingers or with a pen that will move them from screen to screen through option controls.

Using the screen for viewing many options pictured on icons like mail, memo pad, car menu, internet, expenses, calendar, car options, web camera, speaker options, phone, address book, dialog box.

Check any e-mail, voice mail, or video messages by touching the icon mail.

Use the memo pad with a pen that can write onto the screen.

Use the car menu to change any unit or electronic device inside the car like windows, doors, lights, temperature, safety belts, radio, phone, CD-changer; go on the internet and click around by using the pen or finger.

The graphical user interface doesn't only act as a remote control for all of the units and electronic devices, but also as a viewing option for the computer icons.

Look on budget details with the expense icon or see if you're free today with the calendar and mark dates or memos on screen with pen.

Use car options for speakers, volume, bass, tremble, fade, click on the web camera to choose the video messages or viewing for the road; look up an address with the address book; or forget what a command is use the dialog box to look it up.

Using the new 3-lens web camera be able to be seen from your car so you can give video messages, a business meeting, or even to use a 3-lens web camera to view at night with the inferred screen.

Now you can face the camera that's placed on the dashboard towards you to have a video conversation or away from you to see the road.

By switching the lens you can be viewed with the normal standard lens, use the inferred lens to view at night, or use the magnified lens to see up to a predetermined distance of the road.

Be able to record video with the 3-lens web cam for up to a predetermined time on a blank CD by placing it in the radio system and hitting record.

The web camera will be wired through the computer system so the wires won't be on top of the dashboard.

With voice activation and recognition start your car, turn on your lights, heater, and radio all from a predetermined distance away from your car with the wire less microphone.

Lock your keys inside car use the wire less microphone to open doors.

Use the Voice recognition to change CD's from the CD-changer in the back and use the viewing screen to see the options.

Having a disk drive you can now insert a disk to save any information on your screen that you need to type up later.

By using a pad connected to the car and a pen write notes on the memo screen and save them for later on the disk.

Pop in the navigational disk inside for activation.

Need to use a laptop don't worry, because using the adapter hole connect the laptop and type away?

DESCRIPTION OF THE PREFERRED EMODIMENT

The invention described herein provides a graphical user interface, wireless microphone to voice activate the Radio/CD-Telephone System, a 3-lens Web Cam, CD-Changer, and the LCD screen with split personality.

Referring to FIG. 1, the Radio/CD-Telephone system includes a small interface screen 25, which will display the clock 28, preset options for radio 23 and using the buttons 19-24 to scroll left, right, up, or down.

The button 2 is the opening insert for the DVD, CD, and CD-ROM player. Using the buttons 10-16 you have the options of Play, FF, RW, Pause, Stop, Eject, and record. To play the radio 5 you can click on the button 5 or use voice command. Hitting the Web 7 button will allow you to use the 3-lens Web Cam.

Pushing the Phone 8 will allow you to use the phone. The CD-C 9 button is to use the CD-Changer in the back of the car. Need to save any information insert a disk in the hard drive 26 and take it by hitting the eject button 27. To turn the radio system on or off hit the switch 1.

To hook up a lap top with the radio system plug it in the hole 31 and to adapt the phone use hole 32. To save preset radio stations use the memory button 30 or to cancel and reset use the 27 button.

When you hit Options 20 or Menu 17 you can view your screen options on the FIG.2 the graphical user interface. Touching the screen with a finger or pen will send a transmitted signal predetermined to a receiver in the predetermined unit to activate on command.

In FIG.2 referring to the buttons Car Menu 39 and Car Options 43 are the same data screen, but with different lines connecting to the screen incase if one goes down you still can use the other control channel.

The small Icon's displayed on the graphical user interface can be touched and will then move to the next screen clearing everything on the present screen to just that icon option.

The Mail 37, Memo Pad 38, Internet 40, Expenses 41, Date Book 42, Web Cam 44, Speakers 45, Phone 46, Address Book 47, Radio 48, all of linking screens that connect. Moving back or forward from screen to screen by touching with a pen or your fingers.

Safety locks are needed incase your children or passengers are abusing the wireless microphone FIG.4 or the Intercom FIG.4, the graphical user interface FIG.2, or the Radio/CD-Telephone System.

So the buttons 33, 34, 35, 36 are on and off switch that can be pushed which will stop the signals from being connected from the channel controller to the transmitter.

With voice recognition only you can operate all units and electronic devices.

With a password it could activate the wireless microphone and it will protect users from taking the wireless microphone and using it.

The Graphical User Interface acts as a second control channel which receives the signal from a touch and will use the predetermined code channel to send a transmission to the predetermined unit connected to the car's system.

Referring to FIG. 3 the 3-lens web cam, which can be connected to the Radio/CD-Telephone System to be able to view the road with inferred, and a magnified vision. Using the inferred lens 50 to see at night. Put the magnified lens 51 to see at a predetermine distance ahead for any dangerous objects. Installed in the web cam is the lens 52, which is the standard view for using video messages, or recordings.

In FIG. 3 the web cam is designed as a "Lady Bug".

Using different shapes of animals, people, and buildings, and putting the web cam inside the object for decoration you can choose from many variations of the decorated cam and just install it by plugging it in to the wires on top of the dash board.

By clicking on the buttons 44 and 7 you will be connected with the option screen for Web Cam.

In here you can choose to record, create, or send video messages, and have the option to view the road with the 3-lens cam.

In FIG. 4 the Wireless microphone is a receiver and transmitter. Referring to 53 on FIG. 4 where someone will speak into the microphone, it will receive the information and then transmit a signal to the Radio/CD-Telephone System FIG. 1 using the antenna 55.

When not using the Wireless microphone deactivate by turning the off switch on 54.

When you get to use the wireless microphone switch it back to on

Using the wireless microphone FIG.4 to transmit a predetermined signal over the receiving section in the Radio/CD-Telephone System FIG.1 where it will be processed, from the dialog box, and then determine what channel code a transmission will be sent to the predetermined unit to activate system.

When the transmission connects with the receiving unit like a LCD Screen FIG.5 it will receive the signal and determine what command was sent through the dialog box. Was it to turn the screen off or on.

With voice activation switch the multiple LCD screens and choose which screen to play the DVD and, CD-ROM.

Say "screen 1 play DVD and screen 2 play CD-ROM" and then use the speaker option to choose which speaker plays the DVD volume.

The LCD screen will pop up from the dash board above the Graphical user interface so wiring can be connected with both the Radio/CD-Telephone System FIG.1, wireless microphone line FIG.4, and the Graphical user interface line FIG.2 so any channel control will be able to activate the LCD screen.

With only one LCD screen in a car use the split screen personality FIG.5 which means that the LCD can be split into different frames allowing at the same time to view a DVD, a video message, or the road.

Click the button Menu options 17 or Menu option 39 to change the view on the screen.

Many buttons are the same as other buttons, but have different numbers for a main reason.

If one control channel goes down then that control line won't work to activate any units or electronic devices.

If this ever did happen having more than 1 channel controller like the Wireless Microphone FIG 4, Graphical User Interface FIG.2, Radio/CD-Telephone System FIG.1, or the Intercom FIG.4 all of their own channel.

So if the Menu options button 17 goes down, you could still use Menu option 39 to select screen options.

When using a CD-Changer FIG.6 you must connect it to the different control channels so you can change the CD-Changer with any remote controller.

This CD-Changer will be able to hold up to 6 different CD's, DVD's, or CD-ROM's.

Figure 1 consists of 12 sub-graphs labeled (a) through (l). Each graph plots a physiological parameter against time (0 to 10 minutes). The y-axis for all graphs ranges from 0 to 100. The x-axis for all graphs ranges from 0 to 10 minutes. The graphs show that HR, SV, CO, MAP, PVR, SVR, PPA, PVP, and PVP/PPA all increase during the intervention period, while PVP/PPA remains relatively stable.

Parameter	Baseline (0-10 min)	Intervention (10-20 min)
(a) HR (b/min)	~70	~85
(b) SV (ml)	~50	~60
(c) CO (l/min)	~4.5	~5.5
(d) MAP (mmHg)	~80	~90
(e) PVR (mmHg)	~10	~15
(f) SVR (mmHg)	~100	~120
(g) PPA (mmHg)	~10	~15
(h) PVP (mmHg)	~10	~15
(i) PVP/PPA	~1.0	~1.0
(j) PVP/PPA	~1.0	~1.0
(k) PVP/PPA	~1.0	~1.0
(l) PVP/PPA	~1.0	~1.0